

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended) A method for estimating the weight of a horse, comprising the steps of:

- a. measuring a girth, a length and a height of the horse; and
- b. ~~determining an estimated weight of the horse based on a mathematical formula including the girth, the length and the height of the horse, wherein at least two of the girth, the length and the height in the mathematical formula have a different significance in the mathematical formula~~ in accordance with the following mathematical formula

$$\text{Weight Estimate} = k1 \times \text{Girth}^{x1} \times \text{Height}^{x2} \times \text{Length}^{x3}$$

wherein k1 is about .0036, x1 is about 1.6, x2 is about .95 and x3 is about .40, when the girth, length and height are measured in inches.

Claims 2-4 (Canceled)

Claim 5 (Currently Amended) ~~The method of claim 1, wherein in step (b) the estimated weight of the horse is determined utilizing the following mathematical formula~~

$$\text{Weight Estimate} = k2 \times (\text{Girth} \times f1 + \text{Height} \times f2 + \text{Length} \times f3)^{x4}$$

~~where k2 is a constant, f1, f2, and f3 are factors and x4 is an exponent~~

A method for estimating the weight of a horse, comprising the steps of:

- a. measuring a girth, a length and a height of the horse; and

- b. determining an estimated weight of the horse in accordance with the following mathematical formula

$$\text{Weight Estimate} = k2 \times (\text{Girth} \times f1 + \text{Height} \times f2 \times \text{Length} \times f3)^{x4}$$

wherein k2 is about .0036, f1 is about .56, f2 is about .31, f3 is about .13 and x4 is about 2.98, when the girth, length and height are measured in inches.

Claims 6-7 (Canceled)

Claim 8 (Currently Amended) A method for estimating the weight of a horse, comprising the steps of:

- a. receiving a measured girth of the horse;
- b. receiving a measured height of the horse;
- c. receiving a measured length of the horse;
- d. ~~determining an estimated weight of the horse based on a mathematical formula including the measured girth, the measured length and the measured height of the horse, wherein at least two of the measured girth, the measured length and the measured height in the mathematical formula have a different significance in the mathematical formula~~ in accordance with the following mathematical formula

$$\text{Weight Estimate} = k1 \times \text{Girth}^{x1} \times \text{Height}^{x2} \times \text{Length}^{x3}$$

wherein k1 is about .0036, x1 is about 1.6, x2 is about .95 and x3 is about .40, when the girth, height and length are measured in inches; and

- e. outputting the estimated weight of the horse.

Claims 9-11 (Canceled)

Claim 12 (Currently Amended) ~~The method of claim 9-8, wherein in step (b) (d) the estimated weight of the horse is determined utilizing the following mathematical formula~~

A method for estimating the weight of a horse, comprising the steps of:

- a. receiving a measured girth of the horse;
- b. receiving a measured height of the horse;
- c. receiving a measured length of the horse;
- d. determining an estimated weight of the horse in accordance with the following mathematical formula

$$\text{Weight Estimate} = k_2 \times (\text{Girth} \times f_1 + \text{Height} \times f_2 \times \text{Length} \times f_3)^{x_4}$$

~~where k₂ is a constant, f₁, f₂, and f₃ are factors and x₄ is an exponent wherein k₂ is about .0036, f₁ is about .56, f₂ is about .31, f₃ is about .13 and x₄ is about 2.98, when the girth, height and length are measured in inches; and~~

- e. outputting the estimated weight of the horse.

Claims 13-14 (Canceled)

Claim 15 (Currently Amended) An apparatus for estimating the weight of a horse, comprising:

an input unit adapted to receive a measured height, a measured girth and a measured length of the horse;

a storage unit storing weight estimation logic adapted to estimate the weight of the horse ~~based on a mathematical formula including the measured height, the measured girth and the measured length of the horse, wherein at least two of the measured height, the measured girth and the measured length in the mathematical formula have a different significance in the mathematical formula~~ in accordance with the following mathematical formula

$$\text{Weight Estimate} = k1 \times \text{Girth}^{x1} \times \text{Height}^{x2} \times \text{Length}^{x3}$$

wherein k1 is about .0036, x1 is about 1.6, x2 is about .95 and x3 is about .40, when the girth, height and length are measured in inches; and

a computer unit receiving the measured height, the measured girth and the measured length of the horse and executing the weight estimation logic to determine an estimated weight of the horse based on the measured girth, the measured length and the measured height of the horse; and an output unit outputting, in a format perceivable by an individual, the estimated weight of the horse.

Claims 16-18 (Canceled)

Claim 19 (Currently Amended) ~~The apparatus of claim 15, wherein the weight estimation logic determines the estimated weight of the horse based on the following mathematical formula-~~

An apparatus for estimating the weight of a horse, comprising:

an input unit adapted to receive a measured height, a measured girth and a measured length of the horse;

a storage unit storing weight estimation logic adapted to estimate the weight of the horse in accordance with the following mathematical formula

$$\text{Weight Estimate} = k2 \times (\text{Girth} \times f1 + \text{Height} \times f2 \times \text{Length} \times f3)^{x4}$$

where k2 is a constant, f1, f2, f3 are factors and x4 is an exponent

wherein k2 is about .0036, f1 is about .56, f2 is about .31, f3 is about .13

and x4 is about 2.98, when the girth, height and length are measured in inches; and

a computer unit receiving the measured height, the measured girth and the measured length of the horse and executing the weight estimation logic to determine an estimated weight of the horse based on the measured girth, the measured length and the measured height of the horse; and

an output unit outputting, in a format perceivable by an individual, the estimated weight of the horse.

Claims 20-21 (Canceled)

Claim 22 (Currently Amended) A software program capable of running on a computer for estimating the weight of a horse, comprising:

a storage unit storing:

input logic adapted to receive a measured height, a measured girth and a measured length of the horse;

weight estimation logic for determining an estimated weight of the horse ~~based on a mathematical formula including the measured height, the measured girth and the measured length of the horse, wherein at least two of the measured height, the measured girth and the measured length in the mathematical formula have a different significance in the mathematical formula~~ in accordance with the following mathematical formula

$$\text{Weight Estimate} = k1 \times \text{Girth}^{x1} \times \text{Height}^{x2} \times \text{Length}^{x3}$$

wherein k1 is about .0036, x1 is about 1.6, x2 is about .95 and x3 is about .40, when the girth, height and length are measured in inches; and

output logic for receiving the estimated weight of the horse and outputting the estimated weight of the horse.

Claims 23-25 (Canceled)

Claim 26 (Currently Amended) ~~The software program of claim 22, wherein the weight estimation logic determines the estimated weight of the horse based on the following mathematical formula~~

A software program capable of running on a computer for estimating the weight of a horse, comprising:

a storage unit storing:

input logic adapted to receive a measured height, a measured girth and a measured length of the horse;

weight estimation logic for determining an estimated weight of the horse in accordance with the following mathematical formula

$$\text{Weight Estimate} = k2 \times (\text{Girth} \times f1 + \text{Height} \times f2 \times \text{Length} \times f3)^{x4}$$

~~where k2 is a constant, f1, f2, f3 are factors and x4 is an exponent~~

wherein k2 is about .0036, f1 is about .56, f2 is about .31, f3 is about .13 and x4 is about 2.98, when the girth, height and length are measured in inches; and

output logic for receiving the estimated weight of the horse and outputting the estimated weight of the horse.

Claims 27-28 (Canceled)

Claim 29 (Currently Amended) A method for estimating the weight of a horse, comprising the steps of:

- a. measuring a girth[,] and a height of the horse; and

- b. ~~determining an estimated weight of the horse based on a mathematical formula including the girth, and the height of the horse, wherein the girth and the height in the mathematical formula have a distinct significance in the mathematical formula in accordance with the following mathematical formula~~

Estimated Weight = $k_3 \times \text{Girth}^{x_5} \times \text{Height}^{x_6}$

wherein k_3 is about .0035, x_5 is about 1.99, and x_6 is about 1.0, when the girth and height are measured in inches.

Claims 30-31 (Canceled)

Claim 32 (Currently Amended) ~~The method of claim 29, wherein in step (b) the estimated weight of the horse is determined by the following mathematical formula:~~

A method for estimating the weight of a horse, comprising the steps of:

- a. measuring a girth and a height of the horse; and
- b. determining an estimated weight of the horse in accordance with the following mathematical formula

Estimated Weight = $k_4 \times (\text{Girth} \times f_4 + \text{Height} \times f_5)^{x_7}$

where k_4 is a constant, f_4 and f_5 are factors, and x_7 is an exponent wherein k_4 is about .0035, f_4 is about .63, f_5 is about .37 and x_7 is about 3.0, when the girth and height are measured in inches.

Claim 33 (Canceled)

Claim 34 (Currently Amended) A method for estimating the weight of a horse, comprising the steps of:

- a. receiving a measured girth of the horse;
- b. receiving a measured height of the horse;
- c. ~~determining an estimated weight of the horse based on a mathematical formula including the measured girth, and the measured height of the horse, wherein the measured girth and the measured height in the mathematical formula have a distinct significance in the mathematical formula~~ in accordance with the following mathematical formula
Estimated Weight = $k_3 \times \text{Girth}^{x_5} \times \text{Height}^{x_6}$
wherein k_3 is about .0035, x_5 is about 1.99, and x_6 is about 1.0, when the girth and height are measured in inches; and
- d. outputting the estimated weight of the horse.

Claims 35-36 (Canceled)

Claim 37 (Currently Amended) ~~The method of claim 34, wherein in step (c) the estimated weight of the horse is determined by the following mathematical formula:~~

A method for estimating the weight of a horse, comprising the steps of:

- a. receiving a measured girth of the horse;
- b. receiving a measured height of the horse;
- c. determining an estimated weight of the horse in accordance with the following mathematical formula

$$\text{Estimated Weight} = k4 \times (\text{Girth} \times f4 + \text{Height} \times f5)^{x7}$$

where ~~k4 is a constant, f4 and f5 are factors, and x7 is an exponent~~

wherein k4 is about .0035, f4 is about .63, f5 is about .37 and x7 is about 3.0, when the girth and height are measured in inches.

Claim 38 (Canceled)

Claim 39 (Currently Amended) An apparatus for estimating the weight of a horse, comprising:

an input unit adapted to receive a measured girth and a measured height of the horse;

a storage unit storing weight estimation logic adapted to estimate the weight of the horse ~~based on a mathematical formula including the measured height, and the measured girth of the horse, wherein the measured height and the measured girth in the mathematical formula have a distinct significance in the mathematical formula~~ in accordance with the following mathematical formula

$$\text{Estimated Weight} = k3 \times \text{Girth}^{x5} \times \text{Height}^{x6}$$

wherein k3 is about .0035, x5 is about 1.99, and x6 is about 1.0, when the girth and height are measured in inches; and

a computer unit receiving the measured height, and the measured girth of the horse and executing the weight estimation logic to determine an

estimated weight of the horse based on the measured girth, and the measured height of the horse; and
an output unit outputting the estimated weight of the horse.

Claims 40-41 (Canceled)

Claim 42 (Currently Amended) ~~The apparatus of claim 39, wherein the weight estimation logic determines the estimated weight of the horse with the following mathematical formula:~~

An apparatus for estimating the weight of a horse, comprising:

an input unit adapted to receive a measured girth and a measured height of the horse;

a storage unit storing weight estimation logic adapted to estimate the weight of the horse in accordance with the following mathematical formula

$$\text{Estimated Weight} = k4 \times (\text{Girth} \times f4 + \text{Height} \times f5)^{x7}$$

~~where K4 is a constant, f4 and f5 are factors, and x7 is an exponent~~

wherein k4 is about .0035, f4 is about .63, f5 is about .37 and x7 is about 3.0, when the girth and height are measured in inches.

Claim 43 (Canceled)

Claim 44 (Currently Amended) A software program capable of running on a computer for estimating the weight of a horse, comprising:

a storage unit storing:

input logic adapted to receive a measured height, and a measured girth of the horse;

weight estimation logic for determining an estimated weight of the horse based on a mathematical formula including the measured height, and the measured girth, wherein the measured height and the measured girth in the mathematical formula have a distinct significance in the mathematical formula in accordance with the following mathematical formula

$$\text{Estimated Weight} = k3 \times \text{Girth}^{x5} \times \text{Height}^{x6}$$

wherein k3 is about .0035, x5 is about 1.99, and x6 is about 1.0, when the girth and height are measured in inches; and

output logic for outputting the estimated weight of the horse.

Claims 45-46 (Canceled)

Claim 47 (Currently Amended) ~~The software program of claim 44, wherein the weight estimation logic determines the estimated weight of the horse with the following mathematical formula:~~

A software program capable of running on a computer for estimating the weight of a horse, comprising:

a storage unit storing:

input logic adapted to receive a measured height, and a measured girth of the horse;

weight estimation logic for determining an estimated weight of the horse in accordance with the following mathematical formula

$$\text{Estimated Weight} = k4 \times (\text{Girth} \times f4 + \text{Height} \times f5)^{x7}$$

where K4 is a constant, f4 and f5 are factors, and x7 is an exponent wherein k4 is about .0035, f4 is about .63, f5 is about .37 and x7 is about 3.0, when the girth and height are measured in inches.

Claim 48 (Canceled)